

6AN5

Description and Rating

BEAM POWER AMPLIFIER

GENERAL DESCRIPTION

Principal Application: The 6AN5 is a miniature beampower amplifier designed for use as a wide-band radio-frequency or video power amplifier in equip-

Cathode: Coated Unipotential Heater Voltage (A-C or D-C) 6.3 Volts Heater Current 0.45 Ampere Envelope: $T-5\frac{1}{2}$, Glass Base: E7-I, Miniature Button 7-Pin

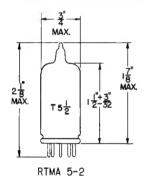
ments with relatively low plate supply voltages. The tube is capable of operation at high plate current levels and exhibits a high transconductance.

Mounting Position:		Any
Direct Interelectrode Capacitances: #		
Grid to Plate (Max)	0.075	$\mu\mu f$
Input	9.0	$\mu\mu f$
Output	4.8	uuf

PHYSICAL DIMENSIONS

TERMINAL CONNECTIONS

BASING DIAGRAM



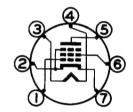
Pin I - Grid Number I

Pin 2 - Cathode and Beam Plates

Pin 3 - Heater Pin 4 - Heater

Pin 5 - Plate

Pin 6 - Grid Number 2 (Screen)
Pin 7 - Cathode and Beam Plates



RTMA 7BD BOTTON VIEW

DESIGN CENTER VALUES: MAXIMUM RATINGS

Plate Voltage	120 300	Volts
Screen Voltage	120 300	Volts
Plate Dissipation	4.2 1.70	Watts
Screen Dissipation	1.4 0.56	Watts
Cathode Current	50 20	Milliamperes
Bulb Temperature at Any Point	140 140	Centigrade
Grid Number Circuit Resistance		
With Fixed Bias *	0.1 0.1	Megohm
With Cathode Bias	0.1 0.1	Megohm

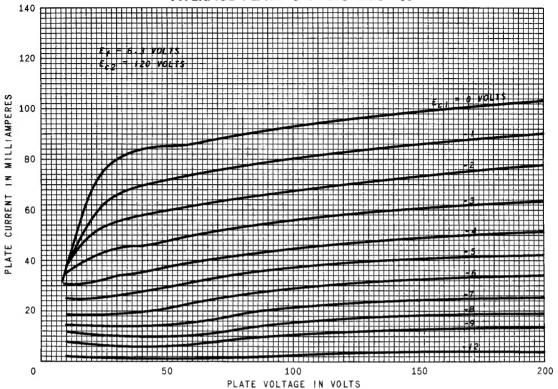
CLASS A, AMPLIFIER	CHARACTERISTICS AND TYPICAL OPERATION	

Plate Voltage	120	Volts
Screen Voltage	120	Volts
Cathode Bias Resistor	120	Ohms
Plate Resistance (Approx)	12500	Ohms
Transconductance	8000	Micromhos
Plate Current	35	
	10	Milliampacac

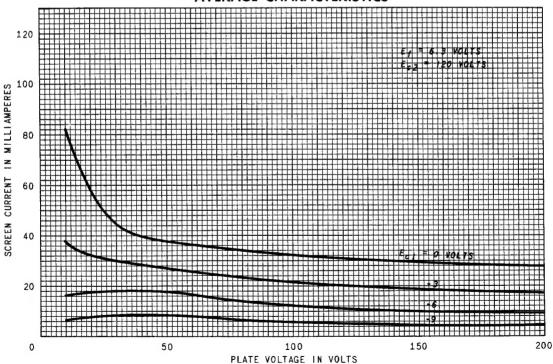
[#] With external shield #316 connected to cathode

^{*} Fixed bias operation is recommended only when the plate and screen dissipation is less than 70 percent of the design-center maximum ratings.

AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



Tube Department, Electronics Division

